```
RRRRRRRRRRRR     UUU         UUU  NNN         NNN   000000000    FFFFFFFFFFFFFFF   FFFFFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN         NNN  000000000     FFFFFFFFFFFFFFF   FFFFFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN         NNN  000000000     FFFFFFFFFFFFFFF   FFFFFFFFFFFFFFF
RRR      RRR     UUU         UUU  NNN         NNN  000       000  FFF               FFF
RRR      RRR     UUU         UUU  NNN         NNN  000       000  FFF               FFF
RRR      RRR     UUU         UUU  NNN         NNN  000       000  FFF               FFF
RRR      RRR     UUU         UUU  NNNNNN      NNN  000       000  FFF               FFF
RRR      RRR     UUU         UUU  NNNNNN      NNN  000       000  FFF               FFF
RRR      RRR     UUU         UUU  NNNNNN      NNN  000       000  FFF               FFF
RRRRRRRRRRRR     UUU         UUU  NNN  NNN    NNN  000       000  FFFFFFFFFFF       FFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN  NNN    NNN  000       000  FFFFFFFFFFF       FFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN  NNN    NNN  000       000  FFFFFFFFFFF       FFFFFFFFFFF
RRR   RRR        UUU         UUU  NNN    NNNNNN    000       000  FFF               FFF
RRR    RRR       UUU         UUU  NNN    NNNNNN    000       000  FFF               FFF
RRR     RRR      UUU         UUU  NNN      NNN     000       000  FFF               FFF
RRR      RRR     UUU         UUU  NNN         NNN  000       000  FFF               FFF
RRR       RRR    UUU         UUU  NNN         NNN  000       000  FFF               FFF
RRR        RRR   UUUUUUUUUUUUUUU  NNN         NNN   000000000     FFF               FFF
RRR         RRR  UUUUUUUUUUUUUUU  NNN         NNN  000000000      FFF               FFF
RRR          RRR UUUUUUUUUUUUUUU  NNN         NNN  000000000      FFF               FFF
```

```
   SSSSSSSS    TTTTTTTTTT   DDDDDDD
   SSSSSSSS    TTTTTTTTTT   DDDDDDDD
SS                 TT       DD     DD
SS                 TT       DD     DD
SS                 TT       DD     DD
SS                 TT       DD     DD
   SSSSSS          TT       DD     DD
   SSSSSS          TT       DD     DD
        SS         TT       DD     DD
        SS         TT       DD     DD
        SS         TT       DD     DD        ....
        SS         TT       DD     DD        ....
SSSSSSSS           TT       DDDDDDDD         ....
SSSSSSSS           TT       DDDDDDD          ....


LL            IIIIII     SSSSSSSS
LL            IIIIII     SSSSSSSS
LL              II     SS
LL              II     SS
LL              II     SS
LL              II     SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II             SS
LL              II             SS
LL              II             SS
LL              II             SS
LLLLLLLLLL    IIIIII     SSSSSSSS
LLLLLLLLLL    IIIIII     SSSSSSSS
```

```
    1   0001  0  %TITLE 'Processes .STANDARD command'
    2   0002  0  MODULE STD (IDENT = 'V04-000'
    3 P 0003  0                  %BLISS32[,ADDRESSING_MODE ( EXTERNAL        = LONG_RELATIVE
    4   0004  0                                              NONEXTERNAL     = LONG_RELATIVE)]
    5   0005  0                  ) =
    6   0006  1  BEGIN
    7   0007  1
    8   0008  1  !*********************************************************************
    9   0009  1  !*                                                                  *
   10   0010  1  !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                         *
   11   0011  1  !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.          *
   12   0012  1  !*  ALL RIGHTS RESERVED.                                            *
   13   0013  1  !*                                                                  *
   14   0014  1  !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
   15   0015  1  !*  ONLY IN ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
   16   0016  1  !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER *
   17   0017  1  !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
   18   0018  1  !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY *
   19   0019  1  !*  TRANSFERRED.                                                    *
   20   0020  1  !*                                                                  *
   21   0021  1  !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE *
   22   0022  1  !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT *
   23   0023  1  !*  CORPORATION.                                                    *
   24   0024  1  !*                                                                  *
   25   0025  1  !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS *
   26   0026  1  !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.         *
   27   0027  1  !*                                                                  *
   28   0028  1  !*                                                                  *
   29   0029  1  !*********************************************************************
   30   0030  1
   31   0031  1  !++
   32   0032  1  ! FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
   33   0033  1  !
   34   0034  1  ! ABSTRACT: Processes the .STANDARD command
   35   0035  1  !
   36   0036  1  ! ENVIRONMENT: Transportable
   37   0037  1  !
   38   0038  1  ! AUTHOR: R.W.Friday      CREATION DATE: August, 1978
   39   0039  1  !
```

STD
V04-000
Processes .STANDARD command
Revision History

F 8
16-Sep-1984 01:49:18   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 13:08:12   DISK$VMSMASTER:[RUNOFF.SRC]STD.BLI;1   Page 2
                                                                       (2)

```
 41    0040  1 %SBTTL 'Revision History'
 42    0041  1 !
 43    0042  1 ! MODIFIED BY:
 44    0043  1 !
 45    0044  1 !     005     KFA00005      Ken Alden      5-Jul-1983
 46    0045  1 !             Fixed sca_justify so it works correctly with gca_autojust.
 47    0046  1 !
 48    0047  1 !     004     KFA00004      Ken Alden      28-Mar-1983
 49    0048  1 !             In SDXY the right margin is no longer reset(to gca_lwidth).
 50    0049  1 !
 51    0050  1 !     003     REM00003      Ray Marshall   07-Mar-1983
 52    0051  1 !             Global edit of all modules. Updated module names, idents,
 53    0052  1 !             copyright dates. Changed require files to BLISS library.
 54    0053  1 !
 55    0054  1 !--
```

```
 57        0055  1 %SBTTL 'Module Level Declarations'
 58        0056  1 !
 59        0057  1 ! TABLE OF CONTENTS:
 60        0058  1 !
 61        0059  1
 62        0060  1 FORWARD ROUTINE
 63        0061  1     SDXY : NOVALUE;
 64        0062  1
 65        0063  1 !
 66        0064  1 ! INCLUDE FILES:
 67        0065  1 !
 68        0066  1
 69        0067  1 LIBRARY 'NXPORT:XPORT';                    ! XPORT Library
 70        0068  1 REQUIRE 'REQ:RNODEF';                      ! RUNOFF variant definitions
 71        0199  1
 72      U 0200  1 %IF DSRPLUS %THEN
 73      U 0201  1 LIBRARY 'REQ:DPLLIB';                      ! DSRPLUS BLISS Library
 74        0202  1 %ELSE
 75        0203  1 LIBRARY 'REQ:DSRLIB';                      ! DSR BLISS Library
 76        0204  1 %FI
 77        0205  1
 78        0206  1 !
 79        0207  1 ! MACROS:
 80        0208  1 !
 81        0209  1
 82        0210  1 ! EQUATED SYMBOLS:
 83        0211  1
 84        0212  1 !
 85        0213  1 ! OWN STORAGE:
 86        0214  1 !
 87        0215  1
 88        0216  1 ! EXTERNAL REFERENCES:
 89        0217  1 !
 90        0218  1
 91        0219  1 EXTERNAL
 92        0220  1     GCA : GCA_DEFINITION,
 93        0221  1     IRA : FIXED_STRING,
 94        0222  1     NUMPRM : NUMPRM_DEFINE,
 95        0223  1     PDT : REF PDT_DEFINITION,
 96        0224  1     PHAN : PHAN_DEFINITION,
 97        0225  1     SCA : SCA_DEFINITION;
 98        0226  1
 99        0227  1 EXTERNAL LITERAL                                          !Error messages
100        0228  1     RNFINM;
101        0229  1
102        0230  1 EXTERNAL ROUTINE
103        0231  1     ERMA,
104        0232  1     REMNEG,
105        0233  1     REMMRG,
106        0234  1     SETCAS,
107        0235  1     TSTBLK;
108        0236  1
```

STD
V04-000

Processes .STANDARD command
STD --

H 8
16-Sep-1984 01:49:18
14-Sep-1984 13:08:12

VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[RUNOFF.SRC]STD.BLI;1

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```
 110    0237  1  %SBTTL 'STD  --'
 111    0238  1  GLOBAL ROUTINE std (handler_code) : NOVALUE =
 112    0239  1
 113    0240  1  !++
 114    0241  1  ! FUNCTIONAL DESCRIPTION:
 115    0242  1  !
 116    0243  1  !       See the ABSTRACT, above.
 117    0244  1  ! FORMAL PARAMETERS:
 118    0245  1  !
 119    0246  1  !       HANDLER_CODE is passed for conformance only.
 120    0247  1  !
 121    0248  1  ! IMPLICIT INPUTS:
 122    0249  1  !
 123    0250  1  !
 124    0251  1  !       NUMPRM contains a number as processed by GETNUM.
 125    0252  1  !
 126    0253  1  ! IMPLICIT OUTPUTS:       None
 127    0254  1  !
 128    0255  1  ! ROUTINE VALUE:
 129    0256  1  ! COMPLETION CODES:       None
 130    0257  1  !
 131    0258  1  ! SIDE EFFECTS:           None
 132    0259  1  !
 133    0260  1  !--
 134    0261  1
 135    0262  2      BEGIN
 136    0263
 137    0264  2      tstblk (0);                              !Force .LISTs and .NOTEs to end, and
 138    0265         !issue error messages if applicable.
 139    0266  2      remmrg ();                               !Report unreported bad margins.
 140    0267  2      remneg ();                               !Report unreported bad backdents.
 141    0268
 142    0269  2      IF  NOT .num_result  THEN                ! If no argument given by user,
 143    0270  2          num_value = .gca_lwidth              !  use current page width.
 144    0271
 145    0272  2      ELSE                                     ! Otherwise:
 146    0273  3          BEGIN
 147    0274  3          IF .num_sign NEQ 0  THEN             !  If a signed number, Try adjusting
 148    0275  3              num_value = .num_value + .gca_lwidth !    current page width.
 149    0276  3          ELSE
 150    0277  3              IF .num_length EQL 0 THEN        !  Otherwise, if user said nothing,
 151    0278  3                  num_value = .gca_lwidth;  !  !   use current page width
 152    0279  3          IF .num_value LEQ 0  THEN            !  If negative number,
 153    0280  4              BEGIN
 154    0281  4              erma (rnfinm, false);           !      report error and
 155    0282  4              num_value = .gca_lwidth;        !      retain current line width.
 156    0283  3              END;
 157    0284  2          END;
 158    0285
 159    0286  2      gca_lwidth = .num_value;
 160    0287
 161    0288  2      !Set lines per page based on page width.
 162    0289
 163    0290  2      IF  .gca_lwidth EQL 60  THEN
 164    0291          phan_llines = 58
 165    0292  2      ELSE
 166    0293  2
```

STD
V04-000

Processes .STANDARD command
STD --

I B
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```
:  167    0294  2              IF  .gca_lwidth EQL 70
:  168    0295  2              THEN
:  169    0296  2                  phan_llines = 74;
:  170    0297
:  171    0298  2      !Check for top of page condition so that footnotes
:  172    0299         !get taken care of ok.
:  173    0300  2
:  174    0301  2      IF  .phan_lines_tp GEQ .phan_llines  THEN
:  175    0302  2          phan_top_page = true;
:  176    0303  2
:  177    0304  2      pdt_indent = 0;
:  178    0305  2      sdxy ();                                    !Finish resetting.
:  179    0306  1      END;                                       !End of STD
```

```
                              .TITLE  STD Processes .STANDARD command
                              .IDENT  \V04-000\

                              .EXTRN  GCA, IRA, NUMPRM
                              .EXTRN  PDT, PHAN, SCA, RNFINM
                              .EXTRN  ERMA, REMNEG, REMMRG
                              .EXTRN  SETCAS, TSTBLK

                              .PSECT  $CODE$,NOWRT,2

                    001C 00000   .ENTRY  STD, Save R2,R3,R4          ; 0238
          54 00000000G EF  9E 00002   MOVAB   PHAN+4, R4
          53 00000000G EF  9E 00009   MOVAB   GCA+140, R3
          52 00000000G EF  9E 00010   MOVAB   NUMPRM+4, R2
                       7E  D4 00017   CLRL    -(SP)                  ; 0264
 00000000G EF          01  FB 00019   CALLS   #1, TSTBLK
 00000000G EF          00  FB 00020   CALLS   #0, REMMRG            ; 0266
 00000000G EF          00  FB 00027   CALLS   #0, REMNEG            ; 0267
             27     FC A2  E9 0002E   BLBC    NUMPRM, 3$            ; 0269
                04 A2  D5 00032   TSTL    NUMPRM+8             ; 0274
                06 13 00035   BEQL    1$
          62    00 B3  C0 00037   ADDL2   @GCA+140, NUMPRM+4    ; 0275
             09 11 0003B   BRB     2$
          08 A2  D5 0003D 1$:  TSTL    NUMPRM+12            ; 0277
             04 12 00040   BNEQ    2$
          62    00 B3  D0 00042   MOVL    @GCA+140, NUMPRM+4    ; 0278
          62 D5 00046 2$:  TSTL    NUMPRM+4             ; 0279
             13 14 00048   BGTR    4$
                7E  D4 0004A   CLRL    -(SP)                ; 0281
       00000000G 8F  DD 0004C   PUSHL   #RNFINM
 00000000G EF          02  FB 00052   CALLS   #2, ERMA
          62    00 B3  D0 00059 3$:  MOVL    @GCA+140, NUMPRM+4    ; 0282
          00 B3    62  D0 0005D 4$:  MOVL    NUMPRM+4, @GCA+140    ; 0286
          3C    00 B3  D1 00061   CMPL    @GCA+140, #60        ; 0290
             06 12 00065   BNEQ    5$
          00 B4    3A  D0 00067   MOVL    #58, @PHAN+4         ; 0291
             0F 11 0006B   BRB     6$
       00000046 8F    00 B3  D1 0006D 5$:  CMPL    @GCA+140, #70        ; 0294
             05 12 00075   BNEQ    6$
          00 B4    4A 8F  9A 00077   MOVZBL  #74, @PHAN+4         ; 0296
          00 B4 08 A4  D1 0007C 6$:  CMPL    PHAN+12, @PHAN+4     ; 0301
             04 19 00081   BLSS    7$
```

J 8

STD   Processes .STANDARD command   16-Sep-1984 01:49:18   VAX-11 Bliss-32 V4.0-742   Page 6
V04-000   STD --   14-Sep-1984 13:08:12   DISK$VMSMASTER:[RUNOFF.SRC]STD.BLI;1   (4)

```
                              FC   A4              01  D0 00083          MOVL    #1, PHAN          ; 0302
                  00000000G   FF   D4 00087 7$:    CLRL    @PDT          ; 0304
      00000000V   EF              00  FB 0008D          CALLS   #0, SDXY          ; 0305
                                  04 00094          RET               ; 0306
```

; Routine Size: 149 bytes,   Routine Base: $CODE$ + 0000

; 180   0307 1

```
 182    0308   1  %SBTTL 'SDXY --'
 183    0309   1  GLOBAL ROUTINE sdxy : NOVALUE =
 184    0310   1
 185    0311   1  !++
 186    0312   1  !  FUNCTIONAL DESCRIPTION:
 187    0313   1  !
 188    0314   1  !       Part of .STANDARD command common to .CHAPTER and .APPENDIX
 189    0315   1  !
 190    0316   1  !  FORMAL PARAMETERS:     None
 191    0317   1  !
 192    0318   1  !  IMPLICIT INPUTS:       None
 193    0319   1  !
 194    0320   1  !  IMPLICIT OUTPUTS:      None
 195    0321   1  !
 196    0322   1  !  ROUTINE VALUE:
 197    0323   1  !  COMPLETION CODES:      None
 198    0324   1  !
 199    0325   1  !  SIDE EFFECTS:          None
 200    0326   1  !
 201    0327   1  !--
 202    0328   1
 203    0329   2      BEGIN
 204    0330   2      phan_paging = .phan_cmd_paging;               !Turn on paging if not /NOPAGING
 205    0331   2      sca_fill = true;
 206    0332   2      sca_justify = .gca_autojust or .sca_justify;  !Turn on justification if the user didn't
 207    0333   2      sca_crock = .gca_autojust;                    !say .NO AUTOJUSTIFY.
 208    0334   2      sca_spacing = 1;
 209    0335   2      sca_lm = 0;
 210    0336   2
 211    0337   2      setcas (.gca_case);                           ! Set case rules.
 212    0338   2
 213    0339   1      END;                                          !End of SDXY
```

```
                                       000C 00000       .ENTRY   SDXY, Save R2,R3                      ; 0309
                          53 00000000G EF 9E 00002       MOVAB    GCA+16, R3
                          52 00000000G EF 9E 00009       MOVAB    SCA+104, R2
              00000000G   FF 00000000G EF D0 00010       MOVL     PHAN+44, @PHAN+40                     ; 0330
                    00             B2  01 D0 0001B       MOVL     #1, @SCA+104                          ; 0331
                    FC             B2     00 B3 C8 0001F BISL2    @GCA+16, @SCA+100                     ; 0332
                    08             B2     00 B3 D0 00024 MOVL     @GCA+16, @SCA+112                     ; 0333
                    14             B2  01 D0 00029       MOVL     #1, @SCA+124                          ; 0334
                                    0C B2 D4 0002D       CLRL     @SCA+116                              ; 0335
                                    70 B3 DD 00030       PUSHL    @GCA+128                              ; 0337
              00000000G EF          01 FB 00033          CALLS    #1, SETCAS
                                       04 0003A          RET                                           ; 0339
```

; Routine Size: 59 bytes,   Routine Base: $CODE$ + 0095

```
 214    0340   1                                                   !End of module
 215    0341   1  END
 216    0342   0  ELUDOM
```

STD
V04-000

Processes .STANDARD command
SDXY --

L 8
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14-Sep-1984 13:08:12

VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[RUNOFF.SRC]STD.BLI;1

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PSECT SUMMARY

Name	Bytes	Attributes
$CODE$	208	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	-------- Symbols --------			Pages	Processing
	Total	Loaded	Percent	Mapped	Time
_255DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_255DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	29	2	86	00:00.3

COMMAND QUALIFIERS

    BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:STD/OBJ=OBJ$:STD MSRC$:STD/UPDATE=(ENH$:STD)

Size: 208 code + 0 data bytes
Run Time: 00:05.1
Elapsed Time: 00:16.5
Lines/CPU Min: 4007
Lexemes/CPU-Min: 18691
Memory Used: 48 pages
Compilation Complete

STD
LIS

SUBST
LIS

SETDAT
LIS

STC
LIS

TITLES
LIS

STYLE
LIS

SCANT
LIS

TOPPAG
LIS

STKFRM
LIS

SKIPL
LIS

SUBPAG
LIS

SCL
LIS

SKPSEP
LIS

STHL
LIS

SETTIM
LIS